

Supplemental Amendment claims 1, 10, 11, 38, 44, 47, 58, and 100 have been amended and new claims 101-106 have been added. Upon entry of the above-made amendments, claims 1-50, 58-64, 72-78, and 89-106 will be pending. A courtesy copy of the pending claims, as amended, is attached hereto as Exhibit A.

Claims 1, 10, 11, 38, and 58 have been amended to more particularly point out that in the claimed methods *each of* said sets of cellular constituents *consists of cellular constituents* that co-vary under a plurality of perturbations or that are co-regulated (emphasis added). Support for these amendments is found in the specification, *e.g.*, at page 12, line 26 through page 13, line 11.

Claim 47 has been amended to correct a typographical error, to depend on claim 46, to provide proper antecedent basis for the clustering algorithm.

Claim 44 has been amended to more particularly point out that the claimed method comprises grouping response profiles among a plurality of response profiles in sets, each of said sets of response profiles consisting of response profiles in which the responses of *one or more sets of cellular constituents* are similar among response profiles in the set, each response profile in said plurality of response profiles (i) comprising measurements of a plurality of cellular constituents, and (ii) resulting from a different perturbation, *wherein each of said sets of cellular constituents consists of cellular constituents that co-vary under a plurality of perturbations or that are co-regulated* (emphasis added). Support for the amendment is found in the specification at page 6, line 27 through page 7, line 2 and page 37, lines 24-30.

Claim 100 has been amended to more particularly point out that the claimed method comprises grouping response profiles among a plurality of response profiles in sets, each of said sets of response profiles consisting of response profiles in which the responses of one or more sets of cellular constituents are similar among the response profiles in the set, each response profile in said plurality of response profiles (i) comprising measurements of a plurality of cellular constituents, and (ii) resulting from a different perturbation, *wherein each of said sets of cellular constituents consists of cellular constituents that co-vary under a plurality of perturbations or that are co-regulated; thereby grouping said sets of perturbations* (emphasis added). Support for the amendment is found in the specification at page 6, line 27 through page 7, line 2 and page 37, lines 24-30. Claim 100 has also been amended to particularly point out that the claimed method is for grouping sets of perturbations that similarly affect cellular constituents *in a cell type or organism*. Support for

the amendment is found in the specification at page 3, lines 13-18 and page 9, lines 1-6. Claim 100 has further been amended so that the last line of the claim agrees with the preamble of the claim.

New claims 101-106 have been added to more particularly point out and distinctly claim the present invention. In particular, these claims recite methods of grouping response profiles in sets which are associated with similar biological effects comprising grouping response profiles among a plurality of response profiles in sets by cluster analysis of said plurality of response profiles. Support for the new claims is found in the specification, *e.g.*, at page 37, lines 17-23.


No new matter has been added by the amendments and the new claims. Entry of the foregoing amendments and remarks is respectfully requested.

CONCLUSION

Applicants respectfully request entry of the foregoing amendments and remarks into the file of the above-identified application. Applicants believe that the claims as amended more particularly point out and distinctly claim the present invention, and that all the pending claims are in condition for allowance. Allowance of the application is respectfully requested.

Respectfully submitted,

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